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APPLICATION NO	. І	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/888,268		06/22/2001	Pananchukunath Manoj Kumar	RLL-178US	8724	
26815	7590	01/27/2004		EXAMINER		
JAYADEEP R. DESHMUKH				YOUNG, MICAH PAUL		
RANBAXY PHARMACEUTICALS INC. 600 COLLEGE ROAD EAST				ART UNIT PAPER NUMBI		
SUITE 210	00			1615	13	
PRINCETO	ON, NJ 0	8540		DATE MAILED: 01/27/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.	Applicant(s)	_				
Office Action Summary			09/888,268	KUMAR ET AL.					
			Examin r	Art Unit					
			Micah-Paul Young	1615					
Period fo	The MAILING DATE of this commu or Reply	nication app	ears on the cover sheet w	th the correspondence address					
THE I - Exter after - If the - If NC - Failu - Any r	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMUN nsions of time may be available under the provision SIX (6) MONTHS from the mailing date of this contract of the provided for reply specified above is less than thirty period for reply is specified above, the maximum or to reply within the set or extended period for repreply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.13 nmunication. (30) days, a reply statutory period w oly will, by statute,	36(a). In no event, however, may a r within the statutory minimum of thir rill apply and will expire SIX (6) MON cause the application to become AE	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).					
1)⊠	Responsive to communication(s) fi	led on <u>23 Se</u>	eptember 2003.						
2a) <u></u> □	☐ This action is FINAL . 2b) ☐ This action is non-final.								
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
5)□ 6)⊠ 7)□	4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers								
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	ınder 35 U.S.C. §§ 119 and 120								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 									
Attachmen	t(s)								
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review nation Disclosure Statement(s) (PTO-1449)		5) D Notice of I	ummary (PTO-413) Paper No(s) Iformal Patent Application (PTO-152)					

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DETAILED ACTION

Notice: Upon further consideration, the Final Rejection has been withdrawn.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined disclosures of Munayyer et al (WO 99/62516 hereafter referred to as '516), Ayer et al (USPN 3,980,778 hereafter referred to as '778) and Liversidge et al (USPN 5,145,684 hereafter referred to as '684). Claims 1-9 are drawn to an oral formulation comprising loratedine particles with an average particle size between 0.1 and 15 microns. Claims 10-18 are drawn to a process of making the formulation of claims 1-9 where the drug is milled into a specific particle size.
- 4. '778 discloses various drug preparations including oral formulation comprising fillers, binders and lubricants. One of the active ingredients can be an antihistamine, where the agents

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are ball milled to a size below 5 microns (examples). The formulation establishes continuity between the various dosage forms, and it would be within the level of skill in the art to apply the processing steps of one preparation to those of all preparations. The formulation includes lactose, methylcellulose, starch, and magnesium stearate (col. 11, lin. 44-53). '778 however does not name the specific antihistamine.

- 5. '516 discloses an oral syrup formulation comprising micronized loratadine in association with fillers, lubricants, and binders (examples). The reference discloses that the loratadine is micronized, yet does not disclose a particular particle size. It would be within the level of skill in the art to ball mill the antihistamine as seen in '778. A skilled artisan would be motivated to do so in order to increase the surface area and in turn affect the bioavailability.
- 6. As is well established in the art the rate of dissolution of a particle drug can increase with increasing the surface area, i.e. decreasing the particle size (col. 1, lin. 28-30 '684). '684 follows this line of thinking by decreasing the particles size of active agent by various methods including milling (col. 5, lin. 41- col. 6, lin. 56) in order to increase their surface are and in turn their bioavailability. The particles are reduced to 400 nm or 0.4 microns (abstract), and can include antihistamines (col. 3, lin. 68). A skilled artisan would have followed this motivation to mill the micronized particles of '516 as suggested by '778.
- 7. With regard to the claims recited specific surface areas, it is the position of the examiner that such limitation would be well within the level of skill in the art to determine through routine experimentation. Barring a showing of unexpected results of said particle size/surface are combination, the limitation is deemed non-critical and does not distinguish the claims over the prior art.

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Therefore one of ordinary skill in the art would have been motivated to reduce the 8.

loratadine particles of '516 as shown in '778 and '684 in order to increase the surface area and

bioavailability. It would have been obvious to a skilled artisan to combine the teachings and

suggestions as such with an expected result of a stable, oral loratadine formulation with

increased bioavailability.

Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Micah-Paul Young whose telephone number is 703-308-7005

(after 2/3/04 571-272-0608). The examiner can normally be reached on M-F 7:00-4:30 every

other Monday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thurman K Page can be reached on 703-308-2927 (after 2/3/04 571-272-0602). The

fax phone number for the organization where this application or proceeding is assigned is (703)

872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-1234.

Micah-Paul Young

Examiner

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MP Young